

1. **Introduction**

2. Radio station according to claim 1, in which at least one of the hybrid polarizing couplers (3₁, 3₂) has two inputs (A1, B1), from which two input radio signals supplied to the receiver (R1) are respectively obtained and in which the receiver is arranged so as to provide diversity processing based on said input radio signals.

4. Radio station according to claim 3, comprising two other receivers (R3, R4) each receiving two input radio signals respectively, one of these two signals being supplied by the first division means (5₁) and the

other of these two signals being supplied by the second division means (5₂).

5. Radio station according to any one of claims 1 to 4, comprising at least one radio signal source (T1) delivering said transmission signal to an input (A1 or B1) of a polarizing coupler (3₁).

6. Radio station according to claim 5, comprising at least one duplexer (4₁) connected between the input (A1 or B1) of the polarizing coupler (3₁) to which said transmission signal is delivered, an input (E1 or F1) of the receiver (R1) and the radio signal source (T1).

7. Radio station according to claim 6, in which the radio processing means and the duplexer (4₁) are housed in a main housing of the radio station, each antenna (1, 2) and each hybrid polarizing coupler (3₁, 3₂) being outside said main housing.

8. Radio station according to claim 7, characterized in that the duplexer (4₁) is included in a radio circuit also including part of the radio processing means.

0980546 073101

ADDA47